

Module 2 – Project Development and Environment

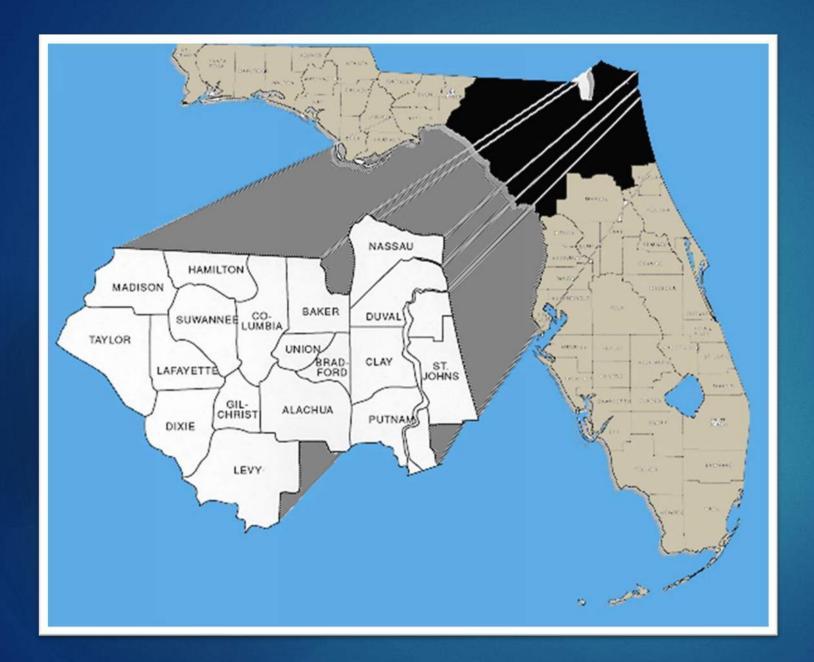
MARCH 1, 2021





Agenda

- FDOT District 2 Background
- PD&E Public Involvement and Engineering Staff
- Production Process
- NEPA Background
- PD&E Process
- Contracts, Scopes and Schedules
- Typical District 2 projects



FDOT District 2

District 2 Engineering and Public Involvement Staff



Janice Charles
Public Involvement Coordinator



Michael Brock, P.E. Project Development Manager



Van Humphreys Permits Coordinator



Justin Garland, P.E.
Project Development Engineer



Debbie Miller Scenic Highway Coordinator



Tyler Klemm, P.E.
Project Development Engineer



Brittany Chastain Project Development Specialist

Production Process

- Planning
- Project Development & Environment (PD&E)
- Design
- ► Right-of-Way
- Construction





Production Process - Planning

- Planning
 - ▶ Potential Projects
 - ► Planning Studies
 - Work Program Development
 - Existing Conditions

- ► ETDM Process
- ▶ LRTP, TIP, STIP
- Purpose and Need



Production Process - PD&E

- ▶ PD&E
 - Purpose and Need
 - Alternative Development
 - National Environmental Policy Act (NEPA) of 1969
 - ► Environmental Studies

- Planning Consistency
- ► SWAT Process
- Environmental Document Approval





Production Process - Design

- Design
 - Overlaps with other phases (SWAT process)
 - NEPA Approval before 60%
 - Detailed Construction Plans
 - Cost Estimates based upon quantities

- Utility Coordination
- Permits acquired



Production Process – Right-of-Way

- Right-of-Way
 - Requires Environmental approval
 - Can be identified as early as PD&E
 - ▶ Typically occurs concurrent to or just after Design
 - Usually takes 2 years to process acquisitions.



Production Process - Construction

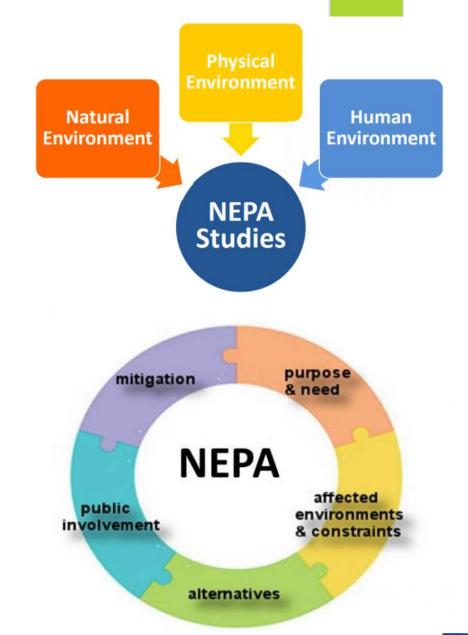
- Construction
 - Multiple delivery methods
 - Conventional/Design Bid Build
 - Design-Build



NEPA Assignment

- ► What is NEPA?
 - National Environmental Policy Act (NEPA) of 1969
 - Federal environmental program administered by the U.S. Department of Transportation
 - Outlines national environmental policy

- What is NEPA Assignment?
 - ► Title 23 U.S.C § 327 "NEPA Assignment"
 - Authorizes the Secretary of the US DOT to assign to the States responsibility for NEPA, environmental review, and other actions required by Federal Law
 - Florida Department of Transportation received NEPA Assignment December 14, 2016

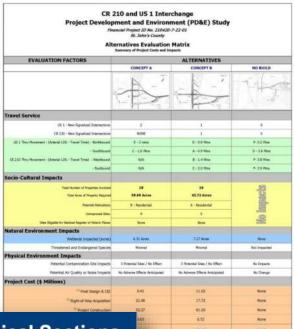




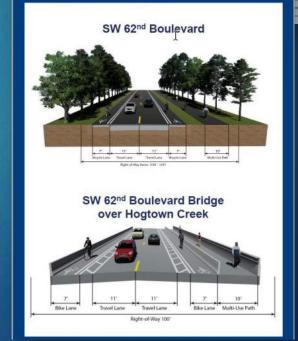
PD&E Process

- Class of Action
- Project Description, Purpose and Need
- Alternative Analysis
- Identify and Address environmental issues
- Prepare technical studies and reports
- Public Involvement
- Approval with Location and Design Concept Acceptance (LDCA) or District Approval





Proposed Typical Sections





Class of Action - Federal

▶ Federal Projects that don't require a PD&E Study:

Type 1
Categorical
Exclusion (CE)



Class of Action - Federal

Federal Projects that require a PD&E Study:

Type 2
Categorical
Exclusion (CE)

Environmental Assessment (EA) Environmental Impact Statement (EIS)



Type 2 Categorical Exclusion (CE)







PROJECTS WITH NO KNOWN SIGNIFICANT IMPACTS

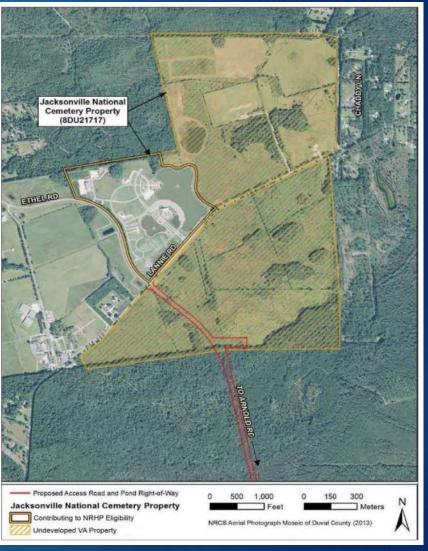
PUBLIC HEARING TYPICALLY REQUIRED

OEM APPROVAL

Environmental Assessment (EA)

- Mid-sized projects in scope and size
- Unknown environmental impact significance
- ▶ EA Completed in one of two ways
 - ► Finding of No Significant Impact (FONSI)
 - Environmental Impact Statement





Environmental Impact Statement (EIS)

- Projects with known significant environmental impacts
- Notice of Intent (NOI)
- Public hearing required
- Draft EIS, Final EIS and Record of Decision (ROD)
- ▶ LDCA received once ROD is approved











Class of Action - State

- Non-Major State Actions (NMSAs)
 - Minor projects with minimum to no environmental impacts
 - Minimal Public Involvement
 - Approved by District





Class of Action - State

- State Environmental Impact Reports (SEIR)
 - Requires full PD&E study
 - ▶ Level of analysis dependent upon the magnitude of impacts
 - Minor to substantial impacts
 - Engineering and environmental analysis required
 - Requires public involvement
 - Approved by District



Project Description, Purpose and Need

- Project Description
 - Includes existing conditions
 - Project limits, logical termini, and location
 - Proposed improvements
- Purpose
 - Identifies primary goals
 - Guide alternatives
 - Should be neither broad nor narrow
- Need
 - Deficiencies, issues, and concerns
 - Examples; Capacity, Transportation Demand, Safety etc.

1.0 SUMMARY OF PROJECT

This preliminary engineering report contains detailed engineering information that fulfills the purpose and need for the improvements to the 295 East Express Phase I project from State Route (SR) 9B to SR 202 (J. Turner Butler Boulevard [JTB Blvd.]) in Duval County, Florida. The preliminary engineering report includes existing conditions, alternatives considered, and recommendations for the 295 East Express Phase I project.

1.1 Project Description

Interstate-295 (1-295) is a 60.9 mile beltway located in Duval County, Florida, and is part of the Interstate Highway System and Florida's Strategic Intermodal System. I-295 serves the major north-south traffic movement around the Jacksonville urban area, provides intermodal connections to the Port of Jacksonville, Jacksonville International Airport, Norfolk Southern and CSX Intermodal Centers, and connects Interstate 10 with Interstate 95.

This project includes the portion of I-295 East (located in southeast Duval County) from SR 9B to SR 202 (JTB Blvd.) and is approximately 5 miles in length. Currently, there are four through lanes on I-295 between the SR 9B Interchange and the SR 152 (Baymeadows Road) Interchange, and six through lanes between SR 152 (Baymeadows Road) Interchange and the SR 202 (JTB Blvd.) Interchange. See Figure 1-1 for project location map.

1.2 Purpose & Need

The purpose of the project is to add capacity, improve travel time reliability, provide long-term

Existing Typical



TB Blvd.) currently experiences heavy d speed limits due to demand that rice (LOS) F from SR 9B to SR 152 dows Road) to SR 202 (JTB Blvd.). By will operate at LOS F (See Table 1-1).

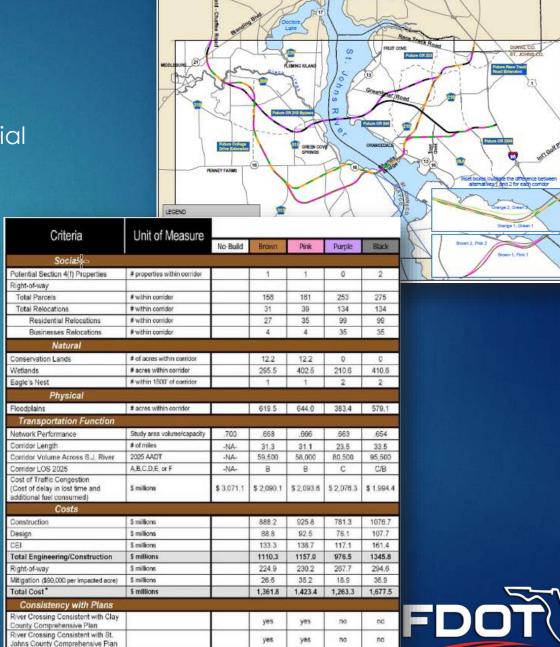
Proposed Typical





Alternative Analysis

- Alternative Analysis
 - Developing, evaluating, and eliminating potential alternatives
 - Interagency coordination
 - Solicits input from the public and stakeholders.
- Alternatives to be considered
 - No-Build Alternative
 - Transportation Systems Management and Operations (TSM&O) Alternative
 - Build Alternatives



No-Build Alternative

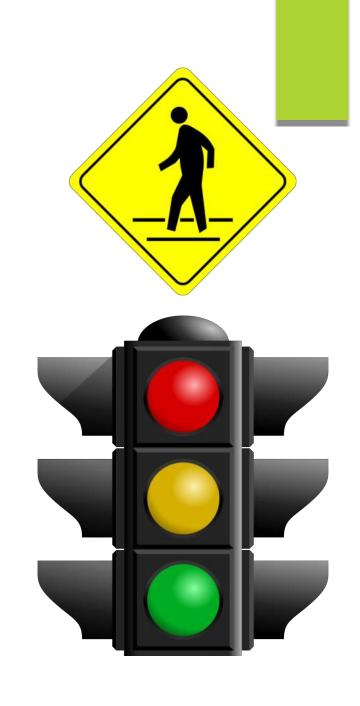
- The No-Build Alternative or "Do Nothing"
- Baseline Alternative
- Requires full analysis
- Included in the Preliminary Engineering Report (PER) and Environmental Document
- Shall be under consideration throughout the PD&E Study





Transportation Systems Management & Operations Alternative (TSM&O)

- Improvement strategies minimizing almost all environmental impacts
- upgrades to the existing facilities
- Must demonstrate that will not meet the purpose and need
- Required documentation in the Preliminary Engineering Report (PER)



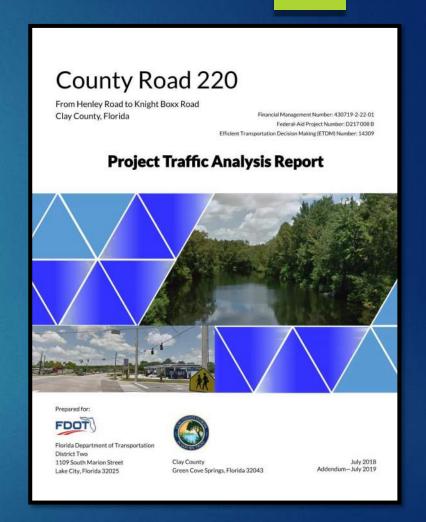
Build Alternatives

- Address the projects Purpose and Need
- Address the transportation problem, avoid/minimize environmental impacts
- Multiple Build Alternatives analyzed
- Elimination of Alternatives and The Preferred Alternative
- Documented in the Preliminary Engineering Report (PER)



Project Traffic Analysis Report (PTAR)

- Traffic Analysis
 - Follows the purpose and need
 - Identify performance problems
- Traffic Analysis for PD&E Studies
 - Methods of Effectiveness (MOE)
 - Project Traffic Forecasting
 - Perform traffic operational analysis and safety analysis
 - Document analysis in PTAR
- For PD&E Studies involving the Interstate, IARs take the place of a PTAR





Preliminary Engineering Report (PER)

- Required for Type 2 CE, EA, EIS
- Engineering Analysis
 - Size depends on COA
 - Data Collection
 - Design controls and criteria
 - Existing conditions analysis
 - Development of alternatives
 - Selection of the preferred alternative
- Includes Public Involvement
- Must be signed by a registered Professional Engineer

I-95 EXPRESS LANES (JTB TO ATLANTIC BOULEVARD)
PROJECT DEVELOPMENT AND ENVIRONMENT (PD&E)
STUDY

Preliminary Engineering Report

I-95 from J. Turner Butler Boulevard to Atlantic Boulevard Jacksonville, Duval County, Florida

> Financial Project ID No. 432259-2-22-01 Federal Aid Project No. 0955 308 I

> > October 2018



Prepared by RS&H, Inc. at the direction of the Florida Department of Transportation, District 2

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being or have been carried out by FDOT pursuant to 23 U.S.C. §327 and a Memorandum of Understanding dated December 14, 2016 and executed by FHWA and FDOT.



Public Involvement - PIP

Public Involvement Plan

1-95 Express Lanes (JTB to Atlantic) Project Development & Environment PD&E Study



PUBLIC INVOLVEMENT PLAN

I-95 Express Lanes (JTB to Atlantic Blvd.) Duval County, Florida Financial Project Number 4322592-22-01

In accordance with Part 1, Chapter 11 of the "Project Development and Environment Manual' (PD&R Manual) this Public Involvement Plan is submitted to the District Environmental Management Office for review and approval.





Public Involvement - Meetings

- ► Three Types of Meetings
 - Public Kickoff Meeting
 - Alternatives Public Meeting
 - Public Hearing
- Public Meetings
 - Provide opportunity to engage public and inform them about status of project
- Public Hearing
 - Gives public the chance to voice opinions and concerns about the project
 - Depending on project scope, may be required by law

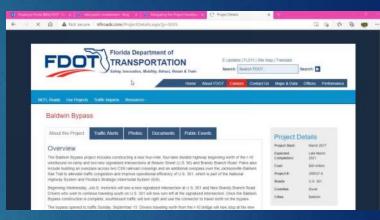




Public Involvement

Two-Way communication (Who are you and what do you think?

One-way communication (Here's what you need to know)



Follow Us On







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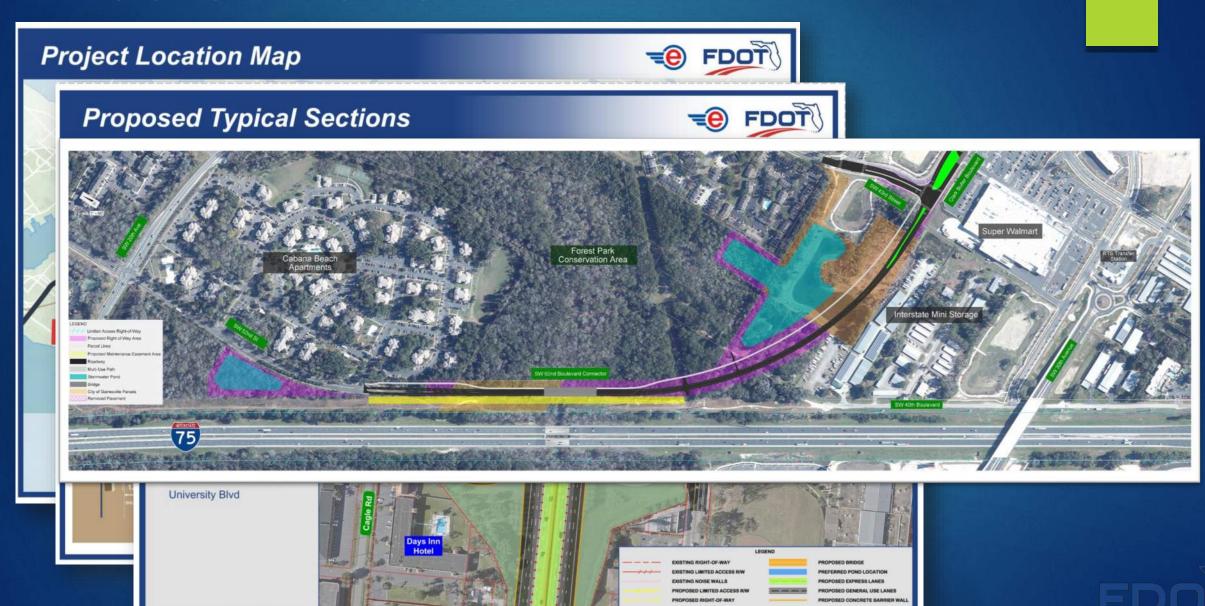
Planning

PD&E

Design

Construction

Public Involvement



Contract Types

- Project Specific
 - Single and Goes with project contracts
 - Defined project limits
 - Advertised
 - Defined Scope of Services
- Districtwide and Continuing Services
 - Broad area coverage
 - Wide ranging scope
 - Used to provide concepts and support additional projects.





PD&E Scope

- Project Scoping
 - Identifies various project related issues
 - Determines potential work activities
- Builds on the SWAT process
 - Scoping starts towards the end of Planning and ends with the beginning of Design
- Documents the level of analysis to meet the Purpose and Need

I-75 from South of SR 121 to North of SR 222 PD&E Study FINIX: 423071-6-22-01 Federal Project #: TBD

SCOPE OF SERVICES FOR CONSULTING ENGINEERING SERVICES PROJECT DEVELOPMENT AND ENVIRONMENT STUDY AND DESIGN

PROJECT DESCRIPTION

This Scope of Services provides for both Project Development and Environment Studies and Design (optional) for capacity improvements, including the potential addition of express lanes, on 1-75 from south of SR 121 to north of SR 222. The Financial Identification Number is 423071-6-22-01.

The work will take place in two phases. Phase I is the PD&E Study and Phase II is the Design.

Some tasks, such as survey, may be accomplished early in the PD&E phase and the resulting data will be used throughout the project.

Work on Phase II, Design, may be authorized to begin upon authorization by the DEPARTMENT. A Supplemental Agreement and written notice to proceed will be executed prior to starting work on the Phase II Design work.

Stage III August 06, 2019

A-I

FPID: 423071-6-22-01



PD&E Schedule

- Critical Elements of the PDE Schedule
 - PD&E or Design level survey (whichever appropriate)
 - Alternative analysis
 - Typical Section Selection
 - Engineering Analysis
 - Right-of-Way identification
 - Utility Impacts
 - Environmental impact analysis
 - Public Involvement Activities
 - Final documentation and Approval with LDCA
- Typical PD&E schedule length 1 to 2 years
- Many parts of the PD&E can be apart of the SWAT process





Typical District 2 PD&E Projects

- ▶ Type 1 CE
- Smaller in scale and impact
- No relocations, minor or no Right-of-Way
- District approved, no LDCA given
- Majority bridge replacement projects





Typical District 2 PD&E Projects

- ▶ Type 2 CE
- Roadway widening/reconstructions
- No significant environmental or Right-of-Way impacts
- ► LDCA given by OEM



Questions?

District 2 Contact

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